

BKG[®] NorCon[™] K-SWE-4K

Double Piston Screen Changer for Continuous Operation

- Normal operation:** 4 screen cavities (100%) in the process
- Backflush:** Not applicable
- Screen change:** During a screen change, 2 of the screen cavities (50%) are removed from the process, allowing for 2 of the screen cavities (50%) to remain in operation

Applications

The K-SWE-4K is suitable for almost all processes and materials. It can be used for polymerization, compounding, film, pipe, sheet, and pelletizing processes. It enables process runs to continue without any system shutdowns while changing the screen.



Benefits

- 4 screens enable for a large filter area in a compact and small housing
- Process remains in operation during a screen change, resulting in no disruptions to the melt flow
- Fully automated venting procedure (via PLC) reduces operator intervention

Features

- Optimized flow channels utilizing rheological data
- Wear-free metallic sealing system - no additional seal required
- Easily integrated into the line controls
- Includes complete guard system, offering maximized safety for the operators

Technical Information

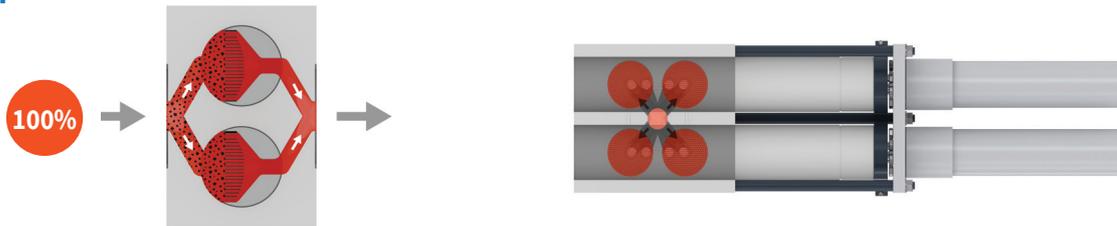
Machine Type/Size	K-SWE-160-4K/ST - K-SWE-280-4K/ST
Screen Dimensions	Ø148.3 - Ø250 mm (5.84 - 9.84 in)
Throughput	800 - 4,000 kg/h (1763.7 - 8818 lb/hr)
Screen Area	690.9 - 1,960 cm ² (107.09 - 303.8 in ²)
Temperature	Up to 450°C (842°F)
Heating	Electric, Fluid, or Steam
Max. Operating Pressure	From size 160 to size 200: Max. 500 bar (7,252 psi) Size 250 and up: Max. 300 bar (4,351 psi)
Differential Pressure	Max. 150 bar (2,176 psi)

*These throughput values are only estimates. The actual rates are dependent upon the viscosity of the material, filtration fineness, application, and the contamination level of the material; therefore, the values may differ depending on the actual process parameters.

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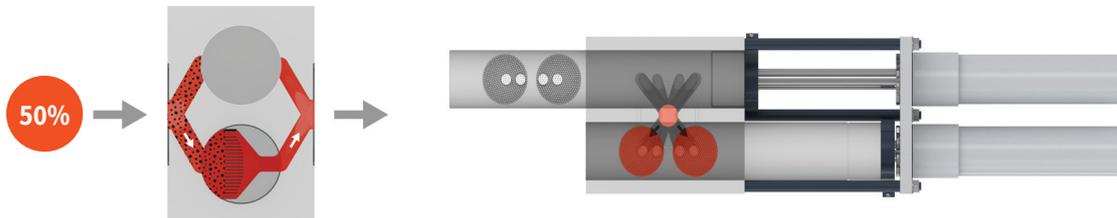
Double Piston Screen Changer for Continuous Operation

Normal operation



The heated steel housing allows for two screen bearing pistons, which contain two screen cavities per piston. The melt flow is subdivided into four flow paths and is directed through each of the four screen cavities.

Screen change



The exchange of the screens is triggered when reaching a chosen differential pressure (Δp). The screen bearing piston with the changeable filter element is moved out of the housing to allow both screen packs of the piston to be removed and replaced with new filter elements. During the screen change, the screen cavities of the other piston remain in the production position and the melt flow is not interrupted. Fifty percent (50%) of the filter area is still used for filtration. Due to a special venting procedure, no air can enter the process after the screen exchange.

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